

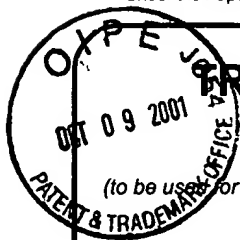
Please type a plus sign (+) inside this box → ☐

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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PTO/SB/21 (08-00)



# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

|  |   |                      |                     |
|--|---|----------------------|---------------------|
| Total Number of Pages in This Submission | 1 | Application Number   | 09/910,684          |
|  |   | Filing Date          | July 20, 2001       |
|  |   | First Named Inventor | Hwang, Michael Y.T. |
|  |   | Group Art Unit       | 2614                |
|  |   | Examiner Name        |                     |
| Attorney Docket Number                   |   | 018170002600         |                     |

## ENCLOSURES (check all that apply)

|   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> <b>Fee Transmittal Form (2)</b><br><br><input type="checkbox"/> Fee Attached<br><br><input type="checkbox"/> Amendment / Response<br><br><input type="checkbox"/> After Final<br><br><input type="checkbox"/> Affidavits/declaration(s)<br><br><input type="checkbox"/> Extension of Time Request<br><br><input type="checkbox"/> Express Abandonment Request<br><br><input type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Response to Missing Parts/ Incomplete Application<br><br><input checked="" type="checkbox"/> <b>Response to Missing Parts under 37 CFR 1.52 or 1.53</b> | <input type="checkbox"/> Assignment Papers (for an Application)<br><br><input type="checkbox"/> Drawing(s)<br><br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition<br><br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><br><input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Request for Refund<br><br><input type="checkbox"/> CD, Number of CD(s) | <input type="checkbox"/> After Allowance Communication to Group<br><br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><br><input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)<br><br><input type="checkbox"/> Proprietary Information<br><br><input type="checkbox"/> Status Letter<br><br><input checked="" type="checkbox"/> <b>Other Enclosure(s) (please identify below):</b><br><br><b>Executed Declaration using ADS ADS (2 pgs)</b><br><br><b>Power of Attorney w/ Certificate of Assignee, copy of Assignment</b><br><br><b>copy of Missing Parts Notice</b><br><br><b>Return Postcard</b> |
| Remarks   |  | The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.  |

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|                          |   |                |
|--------------------------|---|----------------|
| Firm and Individual name | Townsend and Townsend and Crew LLP<br>Paul C. Haughey | Reg No. 31,836 |
| Signature                |   |                |
| Date                     | October 3, 2001                                       |                |

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date:

October 3, 2001

|                       |                 |
|-----------------------|-----------------|
| Typed or printed name | Gloria Sikora   |
| Signature             |                 |
| Date                  | October 3, 2001 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3174481 v1

# FEE TRANSMITTAL for FY 2001

Complete if Known

Application Number 09/910,684  
Filing Date July 20, 2001  
First Named Inventor Hwang, Michael Y.T.  
Examiner Name  
Group Art Unit 2614  
Attorney Docket No. 018170-002600US

TOTAL AMOUNT OF PAYMENT (\$) 477

**METHOD OF PAYMENT**

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit Account Number 20-1430

Deposit Account Name Townsend and Townsend and Crew LLP

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☒ Applicant claims small entity status. See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money Order ☐ Other

**FEE CALCULATION**

**1. BASIC FILING FEE**

| Large Fee Code      | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description        | Fee Paid       |
|---------------------|-----------------|----------------|-----------------|------------------------|----------------|
| 101                 | 710             | 201            | 355             | Utility filing fee     | 370            |
| 106                 | 320             | 206            | 160             | Design filing fee      |                |
| 107                 | 490             | 207            | 245             | Plant filing fee       |                |
| 108                 | 710             | 208            | 355             | Reissue filing fee     |                |
| 114                 | 150             | 214            | 75              | Provisional filing fee |                |
| <b>SUBTOTAL (1)</b> |                 |                |                 |                        | <b>(\$370)</b> |

**2. EXTRA CLAIM FEES**

Total Claims 20 -20\*\* = 0 X \$9 = \$0

Independent Claims 4 -3\*\* = 1 X \$42 = \$42

Multiple Dependent X =

| Large Fee Code      | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  | Fee Paid      |
|---------------------|-----------------|----------------|-----------------|--|---------------|
| 103                 | 18              | 203            | 9               | Claims in excess of 20                                     |               |
| 102                 | 80              | 202            | 40              | Independent claims in excess of 3                          |               |
| 104                 | 270             | 204            | 135             | Multiple dependent claim, if not paid                      |               |
| 109                 | 80              | 209            | 40              | ** Reissue independent claims over original patent         |               |
| 110                 | 18              | 210            | 9               | ** Reissue claims in excess of 20 and over original patent |               |
| <b>SUBTOTAL (2)</b> |                 |                |                 |  | <b>(\$42)</b> |

**3. ADDITIONAL FEES**

| Large Fee Code   | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  | Fee Paid      |
|--|-----------------|----------------|-----------------|--|---------------|
| 105  | 130             | 205            | 65              | Surcharge - late filing fee or oath  | 65            |
| 127  | 50              | 227            | 25              | Surcharge - late provisional filing fee or cover sheet.                    |               |
| 139  | 130             | 139            | 130             | Non-English specification  |               |
| 147  | 2,520           | 147            | 2,520           | For filing a request for reexamination                                     |               |
| 112  | 920*            | 112            | 920*            | Requesting publication of SIR prior to Examiner action                     |               |
| 113  | 1,840*          | 113            | 1,840*          | Requesting publication of SIR after Examiner action                        |               |
| 115  | 110             | 215            | 55              | Extension for reply within first month                                     |               |
| 116  | 390             | 216            | 195             | Extension for reply within second month                                    |               |
| 117  | 890             | 217            | 445             | Extension for reply within third month                                     |               |
| 118  | 1,390           | 218            | 695             | Extension for reply within fourth month                                    |               |
| 128  | 1,890           | 228            | 945             | Extension for reply within fifth month                                     |               |
| 119  | 310             | 219            | 155             | Notice of Appeal   |               |
| 120  | 310             | 220            | 155             | Filing a brief in support of an appeal                                     |               |
| 121  | 270             | 221            | 135             | Request for oral hearing   |               |
| 138  | 1,510           | 138            | 1,510           | Petition to institute a public use proceeding                              |               |
| 140  | 110             | 240            | 55              | Petition to revive - unavoidable   |               |
| 141  | 1,240           | 241            | 620             | Petition to revive - unintentional   |               |
| 142  | 1,240           | 242            | 620             | Utility issue fee (or reissue)   |               |
| 143  | 440             | 243            | 220             | Design issue fee   |               |
| 144  | 600             | 244            | 300             | Plant issue fee  |               |
| 122  | 130             | 122            | 130             | Petitions to the Commissioner  |               |
| 123  | 50              | 123            | 50              | Petitions related to provisional applications                              |               |
| 126  | 180             | 126            | 180             | Submission of Information Disclosure Stmt                                  |               |
| 581  | 40              | 581            | 40              | Recording each patent assignment per property (times number of properties) |               |
| 146  | 710             | 246            | 355             | Filing a submission after final rejection (37 CFR § 1.129(a))              |               |
| 149  | 710             | 249            | 355             | For each additional invention to be examined (37 CFR § 1.129(b))           |               |
| 179  | 710             | 279            | 355             | Request for Continued Examination (RCE)                                    |               |
| 169  | 900             | 169            | 900             | Request for expedited examination of a design application                  |               |
| Other fee (specify)  |                 |                |                 |  |               |
| The Commissioner is authorized to charge any additional fees to the above noted Deposit Account. |                 |                |                 |  |               |
| *Reduced by Basic Filing Fee Paid  |                 |                |                 |  |               |
| <b>SUBTOTAL (3)</b>  |                 |                |                 |  | <b>(\$65)</b> |

\*\*or number previously paid, if greater; For Reissues, see above

**SUBMITTED BY**

| Name (Print/Type) | Paul C. Haughey        | Registration No. (Attorney/Agent) | 31,836 | Telephone | 650-326-2400    |
|-------------------|------------------------|-----------------------------------|--------|-----------|-----------------|
| Signature         | <i>Paul C. Haughey</i> |                                   |        | Date      | October 3, 2001 |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Michael Y.T. Hwang et al.

Application No.: 09/910,684

Filed: July 20, 2001

For: Memory Control Apparatus and  
Efficient Search Pattern for Block-  
Matching Motion Estimation

Examiner:

Art Unit: 2614

TRANSMITTAL LETTER –  
RESPONSE TO NOTICE OF MISSING  
PARTS

Attn: Box Missing Parts  
Assistant Commissioner for Patents  
Washington, D.C. 20231

October 3, 2001

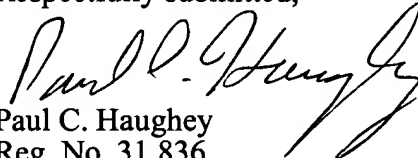
Sir:

Pursuant to the Notice to File Missing Parts of Nonprovisional Application,  
dated August 30, 2001, enclosed are the following to be made of record in the above-identified  
application:

- 1) Executed Declaration Using Application Data Sheet
- 2) Application Data Sheet (2 pages)
- 3) Power of Attorney and Certificate of Assignee Under 37 C.F.R. § 3.73(b)  
with copy of Assignment
- 4) Copy of Notice of Missing Parts

Authorization to charge the undersigned's Deposit Account for the statutory  
basic filing fee and requisite surcharge for late filing of fee or oath is set forth on the  
accompanying Fee Transmittal PTO-SB17.

Respectfully submitted,

  
Paul C. Haughey  
Reg. No. 31,836

Customer No. 20350

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834  
Tel: 650-326-2400 / Fax: 415 576-0300  
PCH:gjs



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

| APPLICATION NUMBER | FILING/RECEIPT DATE | FIRST NAMED APPLICANT | ATTORNEY DOCKET NUMBER |
|--------------------|---------------------|-----------------------|------------------------|
| 09/910,684         | 07/20/2001          | Michael Y.T. Hwang    | 018170-002600US        |

20350  
TOWNSEND AND TOWNSEND AND CREW  
TWO EMBARCADERO CENTER  
EIGHTH FLOOR  
SAN FRANCISCO, CA 94111-3834

**CONFIRMATION NO. 2529**  
**FORMALITIES LETTER**



\*OC00000006499025\*

Date Mailed: 08/30/2001

**NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION****FILED UNDER 37 CFR 1.53(b)*****Filing Date Granted***

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 355 to complete the basic filing fee and/or file a small entity statement claiming such status (37 CFR 1.27).*
- Total additional claim fee(s) for this application is \$40.
  - \$40 for 1 independent claims over 3 .
- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 460.**

*A copy of this notice **MUST** be returned with the reply.*

Customer Service Center  
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

10/11/2001 BABRAHA1 00000055 201430 09910684

|           |           |
|-----------|-----------|
| 01 FC:201 | 370.00 CH |
| 02 FC:202 | 42.00 CH  |
| 03 FC:205 | 65.00 CH  |